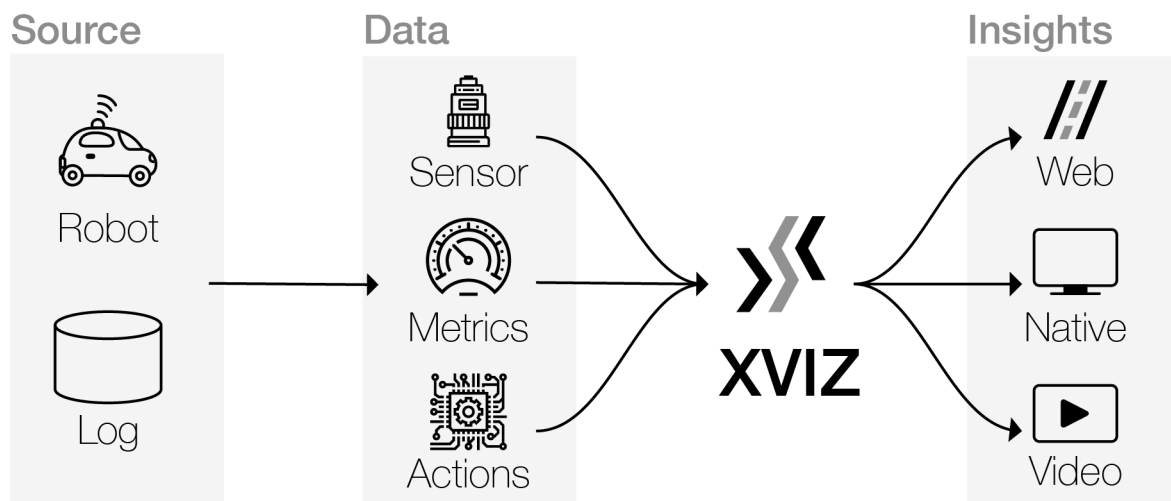


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## XVIZ

coverage 72%

XVIZ is a protocol for real-time transfer and visualization of autonomy data. Learn more in the docs and specification.



### Tools and examples

This repo contains the following submodules:

- [@xviz/builder](#) - Node.js utilities for converting data to the XVIZ protocol.
- [@xviz/cli](#) - CLI utilities for the XVIZ protocol.
- [@xviz/io](#) - Library for loading, accessing, and manipulating XVIZ data.
- [@xviz/parser](#) - Client-side decoder and synchronizer for consuming XVIZ data.
- [@xviz/schema](#) - Validation and schemas for the XVIZ protocol.
- [@xviz/server](#) - A complete server module supporting the full XVIZ protocol.

And examples:

- Sample converters that convert open datasets such as KITTI and Nutonomy to the XVIZ protocol.

### Quick start

You need Node.js and yarn to run the examples.

```
1 # Clone XVIZ
2 $ git clone https://github.com/uber/xviz.git
```

---

```
3 $ cd xviz
4
5 # Install dependencies
6 $ yarn bootstrap
```

Convert and serve KITTI example data:

```
1 # Download KITTI data
2 $ ./scripts/download-kitti-data.sh
3
4 # Convert KITTI data if necessary and run the XVIZ Server and Client
5 $ ./scripts/run-kitti-example.sh
```

## NPM Scripts

- `bootstrap` - install dependencies
- `build` - rebuild all modules
- `test` - run full tests (lint, unit tests in node and headless browser)
- `test bench|bench` - run benchmark tests
- `test bench-browser` - run benchmark tests in browser
- `test node` - run unit tests in Node
- `test browser` - run tests in browser
- `test browser-headless` - run tests in headless browser
- `lint` - run lint
- `lint fix` - run prettier
- `publish beta` - publish beta release
- `publish prod` - publish production release

## Requirements for Contribution

The pre-commit hook `yarn test-fast` requires you to have `jq` installed:

```
1 brew install jq
```